







U.S. Coast Guard

Deputy Commandant For Operations

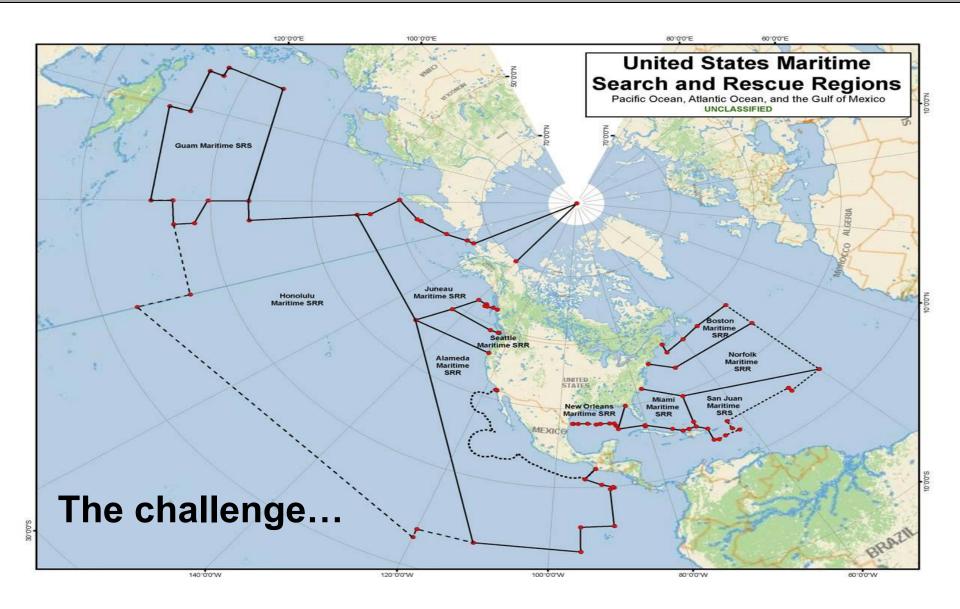
Coast Guard Use of NOAA
Weather Satellite Data
for
Search and Rescue

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Coast Guard Headquarters, Washington, D.C.
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Coast Guard SAR Regions







NOAA SARSAT Data Saves Lives





Distress signal received by satellite



Transmitted to the SARSAT Ground Segment



Received by NOAA MCC; relayed to the USCG RCC





Distress at sea







Coast Guard SARSAT Statistics



Year	USCG Cases (FY)	USCG Lives Saved (FY)	SARSAT Rescues (CY)
2012	1,133	102	261
2013	953	154	263
2014	1,009	49	240
3 Yr Total	3,095	305	764

From 2004-2013
SARSAT distress
alerts led to rescue
of 2,610 people in
the US SRR.





Coast Guard Rescue



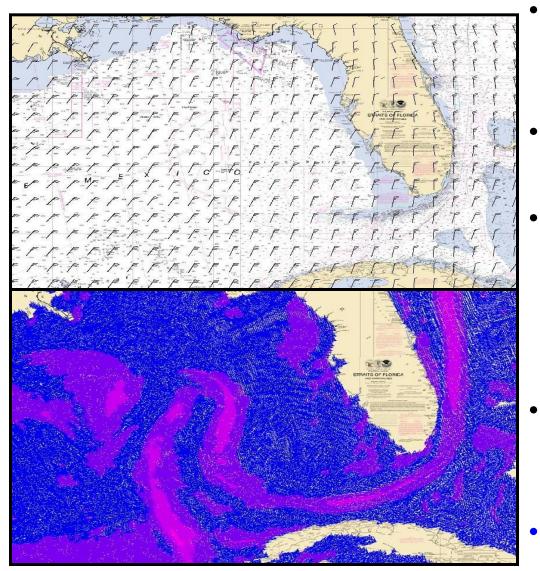
- 7 April 2013 an ocean rowboat suffered a catastrophic capsize event 200nm north of Puerto Rico; the crew activated their SARSAT personal locator beacon
- The alert was received and processed by the NOAA SARSAT system and automatically sent to the Coast Guard Rescue Coordination Center (RCC) in Miami
- RCC Miami launched aircraft from Air Stations Clearwater and Miami to respond.
- Aircrews locate persons in distress within minutes of arrival at the SARSAT position
- 4 lives saved.





NOAA Satellite Weather Products for Search Planning





- 20 NOAA oceanographic models for sea surface currents
- 17 NOAA meteorological models for surface winds
- USCG search planning tool (SAROPS) inputs data to optimize Search Pattern based on environmental realities
- Data used by 45 USCG command centers for SAR mission planning.
- All models assimilate NOAA satellite data



NOAA Satellite Weather Products for Search Planning



